

Title (en)
BEVERAGE FILLING METHOD

Title (de)
GETRÄNKEABFÜLLVERFAHREN

Title (fr)
PROCÉDÉ DE REMPLISSAGE DE BOISSONS

Publication
EP 3120940 A1 20170125 (EN)

Application
EP 16184788 A 20131217

Priority

- JP 2012280093 A 20121221
- EP 13864264 A 20131217
- JP 2013083692 W 20131217

Abstract (en)

Method for sterilizing a drink supply pipe line (7) for supplying a sterilized drink from a heat-sterilizing unit (18) into a filling machine (2), wherein an upstream side circulation path (6a) is formed by forming an upstream side return path to an upstream side pipe line section (7a) passing through the sterilizing unit of the drink supply pipe line, a downstream side circulation path (6b) is formed by forming a downstream side return path to an downstream side pipe line section (7b) of the drink supply pipe line extending from a downstream side portion of the upstream side pipe line section to the filling machine, an alkaline cleaning liquid is circulated within the upstream side circulation path and the downstream side circulation path to thereby clean and sterilize an interior of the drink supplying pipe line, and a drink filling working is started after performing a rinsing treatment with water.

IPC 8 full level

B08B 9/027 (2006.01); **A61L 2/04** (2006.01); **A61L 2/06** (2006.01); **B67C 3/00** (2006.01); **B67C 7/00** (2006.01)

CPC (source: CN EP US)

B08B 9/027 (2013.01 - CN EP US); **B67C 3/001** (2013.01 - CN EP US); **B67C 7/0073** (2013.01 - CN US); **A61L 2/18** (2013.01 - US)

Citation (applicant)

- JP 2007331801 A 20071227 - NIPPON CANPACK KK
- JP 2000153245 A 20000606 - SANYO COCA COLA BOTTLING KK, et al
- JP 2007022600 A 20070201 - TOYO SEIKAN KAISHA LTD

Citation (search report)

- [XI] JP 2011255938 A 20111222 - DAINIPPON PRINTING CO LTD
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- [XI] US 2012000492 A1 20120105 - KATZENBAECHER HANS-JUERGEN [DE], et al
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- [A] WO 2006032731 A1 20060330 - TAMPEREEN TEOLLISUUSSAEHKOE OY [FI], et al
- [A] JP 2004066159 A 20040304 - DAISAN KOGYO
- [A] JP 2007002014 A 20070111 - KAO CORP

Citation (third parties)

Third party : Anonymous
US 2012000492 A1 20120105 - KATZENBAECHER HANS-JUERGEN [DE], et al

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EP4177213A1; EP3811784A4; WO2019142742A1

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DOCDB simple family (publication)

EP 2937309 A1 20151028; EP 2937309 A4 20161102; EP 2937309 B1 20230802; CN 104755411 A 20150701; CN 104755411 B 20161102;
CN 106938836 A 20170711; CN 106938836 B 20191101; CN 106976834 A 20170725; EP 3120940 A1 20170125; EP 3120940 B1 20211117;
JP 2018012548 A 20180125; JP 6222110 B2 20171101; JP 6460181 B2 20190130; JP WO2014098058 A1 20170112;
US 10442669 B2 20191015; US 2016185584 A1 20160630; WO 2014098058 A1 20140626

DOCDB simple family (application)

EP 13864264 A 20131217; CN 201380056133 A 20131217; CN 201610881558 A 20131217; CN 201610881559 A 20131217;
EP 16184788 A 20131217; JP 2013083692 W 20131217; JP 2014553144 A 20131217; JP 2017160454 A 20170823;
US 201314650737 A 20131217